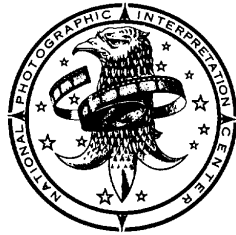


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Basic Imagery Interpretation Report



**NATIONAL
PHOTOGRAPHIC
INTERPRETATION
CENTER**

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SVOBODNYI ICBM COMPLEX

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DEPLOYED STRATEGIC SSM FACILITIES

USSR

JUNE 1969

COPY NO. 111

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INSTALLATION OR ACTIVITY NAME

COUNTRY

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Svobodnyy ICBM Complex

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UTM COORDINATES

NA

GEOGRAPHIC COORDINATES

51-52-00N 128-16-00E

MAP REFERENCE

SAC. USATC 200, Sheet 0203-3HL, 4th ed, Dec 65, scale 1:200,000 (SECRET); USATC 200, Sheet 0198-25HL, 2d ed, Apr 66, scale 1:200,000 (SECRET)

LATEST IMAGERY USED

NEGATION DATE (if required)

NA

ABSTRACT

The Svobodnyy ICBM Complex consists of eight SS-7 launch sites, 60 SS-11 launch sites, and their supporting facilities. Portions of the complex were first observed in []

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[] Launch site construction was probably begun in [] although the SS-11 sites were not started until late []. The last of the six SS-11 launch groups was completed in []

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During [] survey towers in a suspect deployment area and construction components in the railhead and storage area indicated continuing expansion of this complex. However, the surveyed area was never developed and the construction components were removed from the rail-to-road transfer point, probably to other complexes currently under construction.

This report updates published information on the launch sites and other facilities at the Svobodnyy complex. The report contains a map depicting site deployment, annotated photographs of support elements with mensural data on significant structures, a bar chart showing the construction timing of the launch groups, and a tabulated chronology of the entire complex. Information is current through [] photography of []

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INTRODUCTION

The Svobodnyy ICBM Complex, the easternmost Soviet ICBM complex, is approximately 25 nautical miles (nm) from the Amur River border with China (Figure 1).

The complex support facilities are about 21 nm north of the city of Svobodnyy between the Zeya River and the Trans-Siberian Railroad. Launch site deployment consists of facilities for eight launch sites for the SS-7 missile system and 60 launch sites in six groups of ten for the SS-11 missile system.

The complex is deployed over an area of approximately 1,000 square nm to the west, north, and northeast of the city of Svobodnyy. The complex support facilities and the rail-to-road transfer point are situated near the small town of Kurgan, 21 nm north of Svobodnyy, and on the Shimanovsk-Svobodnyy portion of the Trans-Siberian Railroad that follows the Bolshaya Pera River through the complex. The complex probably utilizes Svobodnyy Airfield, just north of Svobodnyy.

The terrain in the area slopes generally from north to south and is marked by narrow, sharp ridges. It drains into the Bolshaya Pera River, which flows south into the Zeya River, east of Svobodnyy. The region is not conducive to agriculture, and only scattered patches of land, mostly along the ridge tops, have been cleared of brush and small trees for farming. A few small towns or villages are dispersed in the complex area, mostly along the rail line and the Bolshaya Pera River. The climate is seasonal, with cold winters and snow prevailing from mid-November to March.

The SAM defenses in the area include SA-2, SA-3, and SA-5 launch sites.

BASIC DESCRIPTION

The Svobodnyy ICBM Complex deploys both the SS-7 and SS-11 ICBM weapon systems. It contains eight SS-7 ICBM launch sites; 60 SS-11 ICBM single-silo launch sites deployed in six groups, designated I through N; complex support facilities; a complex headquarters command and control facility; []

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[] and a rail-to-road transfer point with an SS-11 training site. The first indications of ICBM deployment in the Svobodnyy area occurred in [] (Table 1), when the

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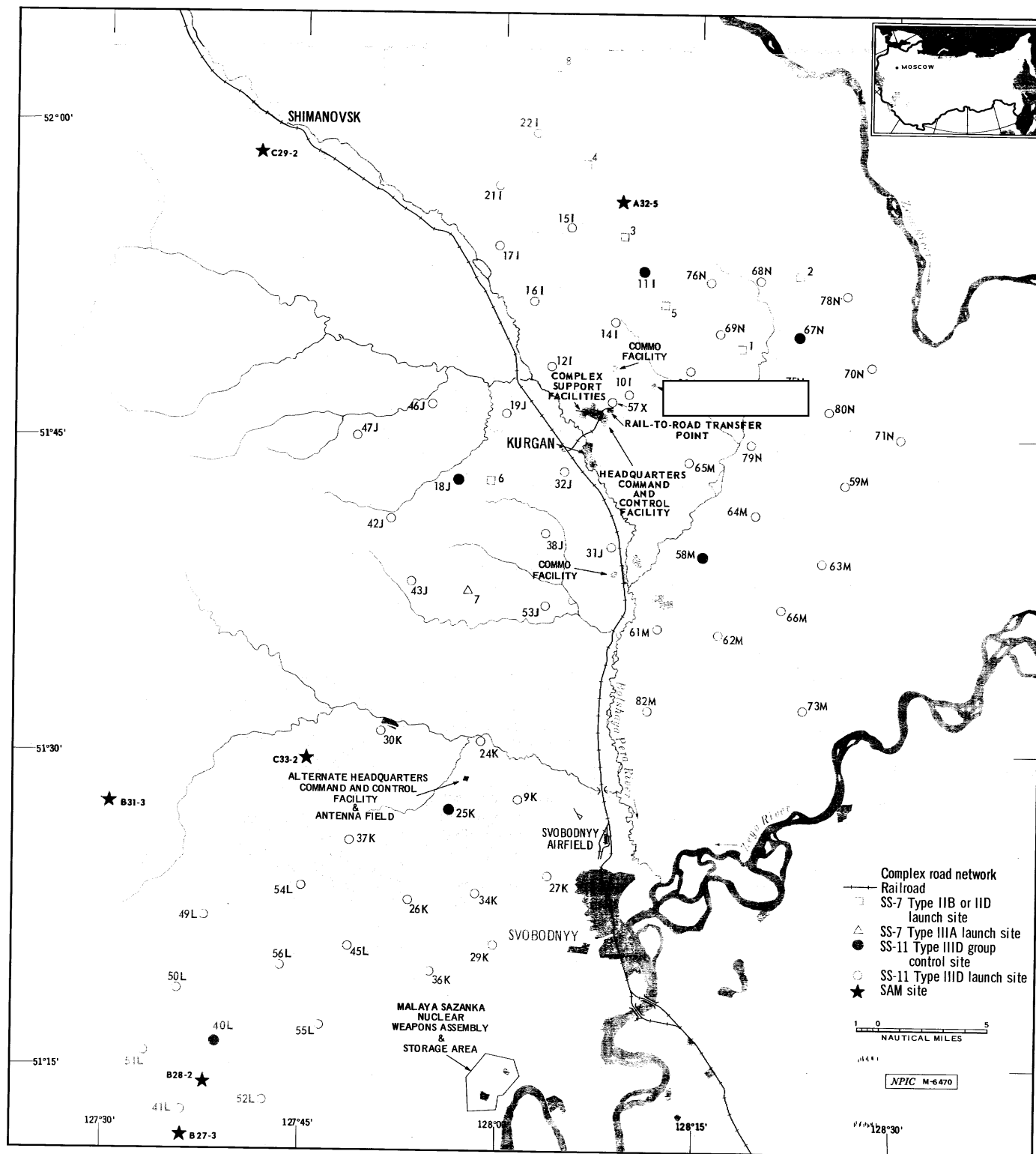


FIGURE 1. LOCATION MAP

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complex support facilities, the rail-to-road transfer point, and three of the SS-7 launch sites were observed.

In [] three triangular towers, probably for surveying, were observed in the area between the N group and the Zeya River. The presence of these towers indicated the possible preparation for deployment of another launch group in this area. During the same time frame type IID silo headworks materials were in evidence at the railhead and storage area in excess of what was needed for completing the silos under construction. In [] these materials were no longer present in the railhead and storage area and since no further deployment was in evidence at the complex it was apparent the materials were shipped out, possibly to other complexes.

Launch Sites

Construction for the SS-7 launch sites probably started in [] with three type IIB soft launch sites. During [] construction began on two type IID soft launch sites, and the three initial type IIB sites were completed. In [] construction started on two additional type IID launch sites and the one type IIIA triple-silo launch site, and during the same year two of the type IID launch sites were completed. The two remaining type IID sites and the type IIIA site were completed in []

In the last quarter of [] construction started on launch group I, which was the initial deployment of SS-11 silos at this complex (Figure 2). During [] construction was started on launch groups J, K, and L. In [] construction on the last two launch groups, M and N, started, and launch groups I, J, K, and L were completed. In [] the last two launch groups, M and N, were completed. There is no evidence as of [] that any more single-silo launch sites will be deployed at Svobodnyy.

Most of the SS-11 launch sites have inner and outer security fences with a site support building in between, but the number of fence rows, from one to three, varies at each site. At most sites helicopter landing areas are under construction near the entrance gates outside the security fencing.

Complex Support Facilities

The complex support facilities, which include administration and housing areas (Figure 3) and a railhead and storage area (Figure 4), are divided by a rail spur which branches off the main Trans-Siberian rail line. The railhead and storage area is located on the northwest side of the rail spur and the administration and housing areas on the southeast side. Each is served by rail sidings extending into the areas. In addition, a main road serves the areas and connects them to a primary road along the Trans-Siberian Railroad. The administration and housing areas contain administration buildings, an

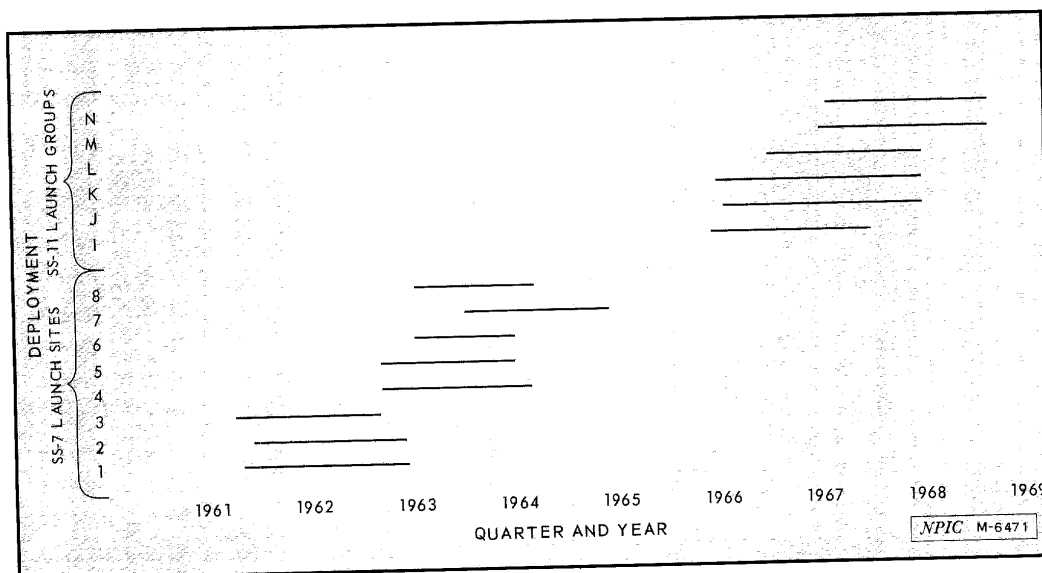


FIGURE 2. CONSTRUCTION TIMING OF LAUNCH GROUPS

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approximately 120-bed hospital, elementary and secondary schools, heat- and powerplants, a water and sewage system, a motor pool with maintenance garages, warehouses, recreation and civic facilities, apartment buildings, and barracks.

The railhead and storage area was used principally during construction of the complex for the storage and handling of materials for construction of the launch sites and associated structures. Many of the prefabricated concrete materials were produced by the collocated batch and prefabrication plant.

Complex Headquarters Command and Control Facility

The complex headquarters command and control facility (see Figure 3),¹ serves as the missile control center and is on the southeast side of the complex support facilities. It consists of an arch-roofed, earth-covered building with two lattice antenna towers. A high-frequency communications facility is 2 nm to the north. An alternate headquarters command and control facility with a high-frequency antenna field is under construction between launch sites 24K and 25K, approximately 22 nm southwest of the complex support facilities. This facility was first observed in the third quarter of [redacted] and is expected to be completed by [redacted]

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Rail-to-Road Transfer Point

The rail-to-road transfer point,² which provides facilities for missile maintenance and servicing (Figure 6), is at the end of the complex rail spur and northeast of the complex support facilities. It contains a transloading area for missiles; propellant handling facilities; a missile receiving, inspection, and maintenance (RIM) facility for SS-7 and SS-11 ICBMs; and a number of warehouses. A type IIID training site, designated 57X, is at the north edge of the transfer point.

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REFERENCES

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MAPS OR CHARTS

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- SAC. US Air Target Chart, Series 200, Sheet 0203-2HL, 2d ed, Sep 65, scale 1:200,000 (SECRET)
- SAC. US Air Target Chart, Series 200, Sheet 0198-25IIL, 2d ed, Apr 66, scale 1:200,000 (SECRET)

DOCUMENTS

1. NPIC. [REDACTED] Soviet ICBM Headquarters Command and Control Facilities, Dec 68 (TOP SECRET [REDACTED])
2. NPIC. [REDACTED] Analysis of Rail-to-Road Transfer Points Associated With the Soviet SS-11 ICBM, Jun 68 (TOP SECRET [REDACTED])

REQUIREMENT

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NPIC Project 210168

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